

EASTERN UNIVERSITY, SRI LANKA
SECOND YEAR FIRST SEMESTER EXAMINATION IN AGRICULTURE 2009/2010
(DECEMBER/JANUARY- 2012/13)
AB 2102 PRINCIPLES OF GENETICS

Answer all questions

Time allowed: One hour



1. a) Define the following terms,
 - (i) Codominance
 - (ii) Pleiotrphy
 - (iii) Epistasis
 - b) Give brief descriptions on the modes of non-mendelian inheritance.
 - c) Briefly explain trisomy, monosomy and isochromosomal conditions in mammals.
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2. Write short notes on,
 - a) Gene expression
 - b) Sex determination mechanism in higher plants
 - c) Gene transfer in higher plants